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APPLICATION NO	D. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,525		06/25/2003	Valery M. Dubin	42P16623	4832
8791	7590	03/30/2005		EXAM	INER
		OFF TAYLOR &	KIELIN, ERIK J		
12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030				ART UNIT	PAPER NUMBER
				2813	-

DATE MAILED: 03/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	A series Alexander	
	Application No.	Applicant(s)
Office Action Comments	10/607,525	DUBIN, VALERY M.
Office Action Summary	Examiner	Art Unit
	Erik Kielin	2813
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a roon. The statutory minimum of thin the statutory minimum of thin the statutory minimum of the statutory minimum of the statute. The statute is a specification to become AB or statute.	eply be timely filed ry (30) days will be considered timely. ITHS from the mailing date of this communication. IANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on	13 January 2005.	
2a) This action is FINAL . 2b)] This action is non-final.	
3) Since this application is in condition for a closed in accordance with the practice ur		
Disposition of Claims		
4) ⊠ Claim(s) 1-76 is/are pending in the application 4a) Of the above claim(s) 25-35 and 64-7 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-24 and 36-39 are subject to reserve the subject t	<u>6</u> is/are withdrawn from conside	
Application Papers		
.9) ☐ The specification is objected to by the Exa	aminer.	
10) The drawing(s) filed on is/are: a)		
Applicant may not request that any objection		
Replacement drawing sheet(s) including the of the first the control of the contro		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu. 2. Certified copies of the priority docu. 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	nments have been received. Iments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	application No received in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-943) Information Disclosure Statement(s) (PTO-1449 or PTO/9449) 	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)

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DETAILED ACTION

This action responds to the Election filed 13 January 2005.

Election/Restrictions

1. While Applicant's election of the invention of Group II, claims 1-24 and 36-63, without traverse is noted, this application contains plural inventions and species claims directed to the following patentably distinct species of the claimed invention:

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - II-A. Claims 1-24 and 36-39, drawn to a method of forming carbon nanotubes in a porous material, classified in class 427, subclass 577 or 590.
 - II-B. Claims 39-63, drawn to a method of forming a metal coating, embedding carbon nanotubes during a liquid-phase plating process, classified in class 205, subclass 109 or 114.

The inventions are distinct, each from the other because of the following reasons:

- Inventions II-A and II-B are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have, *inter alia*, different modes of operation: II-A grows carbon nanotubes in a porous material (e.g. metal oxide) after formation of the porous matrix while II-B embeds carbon nanotubes during the plating of a metal.
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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5. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

- 6. Both inventions of the Groups II-A and II-B additionally contain claims directed to the following patentably distinct species of the claimed invention:
 - 1. Method of forming a composite carbon nanotube material attached to a substrate.
 - 2. Method of forming a free-standing composite carbon nanotube material.
 - 3. Method of attaching a composite carbon nanotube material to a different substrate from that on which it is formed.

In addition to the election of either II-A or II-B, Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

In this regard, note that subcombinations are **not** generic to the combination using the subcombination. (See MPEP **806.04(c)**.) Accordingly, the addition of steps or features (as indicated by language such as "further comprising" in a dependent claim) creates a subcombination-combination relationship, preventing the independent claim from being generic. Note further that for a claim to be generic it should recite all features (further defined by the dependent claims) in generic form. (See MPEP **806.04(d)**.)

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable

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thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erik Kielin whose telephone number is 571-272-1693. The examiner can normally be reached from 9:00 - 19:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Erik Kielin

Primary Examiner

March 26, 2005